

## ABSTRACT OF THE DISCLOSURE

An energy conversion system is provided for converting heat energy from a variety of heat sources to electric power for operating electrical appliances. The system may be incorporated in a power on demand pilot system of a gas operated equipment to provide the sole electric power for operating the equipment. Thermoelectric modules provide the basic transducer for converting the heat energy to electric power and a heat pipe is employed for conducting the heat energy from a heat source to the conversion system.

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